

(11) Publication number:

05021378 A

Generated Document.

PATENT ABSTRACTS OF JAPAN

(51) Intl. Cl.: H01L 21/28 H01L 21/205 H01L 21/225

H01L 21/28 H01L 21/82 H01L 21/3205 H01L 27/04 H01L 21/331 H01L 29/73

H01L 21/336 H01L 29/784

(22) Application date: 13.08.91

(21) Application number: 03202931

31.08.90 JP 02228124

(30) Priority:

(43) Date of application publication: 29.01.93

(84) Designated contracting

states:

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SEMICONDUCTOR DEVICE (54) MANUFACTURE OF

(57) Abstract:

characteristic and is just suitable for excellent step-portion covering including boron which ensures manufacturing a silicon film PURPOSE: To provide a method of

manufacturing process under a low temperature condition.

CONSTITUTION: An amorphous Si film is deposited by the pressure-reduced CVD method under a low temperature of 200 or higher and 400°C or lower using any one of disilane (Si2H6) or trisilane (Si3H6) and dibolane (B2H6). Thereby, a Si film including boron which ensures excellent step-portion covering characteristic can be formed. Using the obtained Si film as a diffusion source, extremely shallow junction may be formed.

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